SELF-DIAGNOSTIC FUNCTION

SERVICE MANUAL

FE-1 CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-25X5A	RM-883	Italian	SCC-Q06E-A	KV-25X5K	RM-883	OIRT	SCC-Q03E-A
KV-25X5B	RM-883	French	SCC-Q02E-A	KV-25X5L	RM-883	Irish	SCC-Q07B-A
KV-25X5D	RM-883	AEP	SCC-Q04E-A	KV-25X5R	RM-883	OIRT	SCC-Q03F-A
KV-25X5E	RM-883	Spanish	SCC-Q05E-A	KV-25X5U	RM-883	UK	SCC-Q01D-A

MICROFILM

TRINITRON® COLOR TV

SONY®

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H	GERMAN Stereo	ITALIA VHF : A-H2 (C) UHF : 21-69 PAL B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10	PAL NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K, L, I	GERMAN/NICAM Stereo	L VHF : F02-F10 UHF : F21-F60 CABLE : B-Q B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69 I UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69 D/K VHF : R01-R12 UHF : R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	KV-25X5K GERMAN/NICAM Stereo KV-25X5R GERMAN Stero	B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 D/K VHF : R01-R12 UHF : R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Irish	I	NICAM Stereo	VHF : A-C, D-J VHF : 21-69 CABLE CHANNELS S1-S20 HYPERBAND S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	I	NICAM Stereo	UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	25X5A	25X5B	25X5D	25X5E	25X5K	25X5L	25X5R	25X5U
Power Consumption	89W	97W	97W	97W	97W	139W	97W	139W

[PICTURE TUBE] Super Trinitron
Approx. 63cm (25 inches)
(Approx. 59cm picture measured diagonally)
110 degree deflection

Input/Output Terminals

[REAR]

1/1 21-pin Euro connector (CENELEC standard).
- Inputs for Audio and Video signals.
- Inputs for RGB.
- Outputs of TV Video and Audio signals.

2/S2 21-pin Euro connector.
- inputs for Audio and Video signals.
- inputs for S Video.
- outputs for Audio and Video signals (selectable).

Phono Jack
- Outputs for Audio Signals

[FRONT]

3 Video input - phono jack

3 Audio inputs - phono jacks

S3 S Video input 4 pin DIN

Headphone jacks : stereo minijack

Sound output	2 x 20W (Music Power)
Power requirements	220 - 240V
Dimensions	Approx 593x502x506mm
Weight	Approx 33.2kg
Supplied accessories	RM-883 Remote Commander (1) IEC designated R6 battery (1)
Other features	NICAM*****, FASTEXT, TOPTEXT *****(KV-25X5B/25X5E/25X5K/25X5L/25X5U only)

[RM-883]

Remote control system	Infrared control
Power requirements	1.5V dc 1 battery IEC designation R6 (size AA)
Dimensions	Approx 65x225x21mm (w/h/d)
Weight	Approx 157g (Not including battery)

Design and specifications are subject to change without notice.

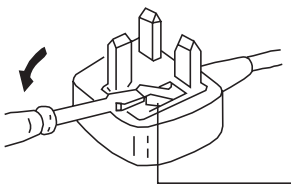
Model Name / Item	KV-25X5A	KV-25X5B	KV-25X5D	KV-25X5E	KV-25X5K	KV-25X5L	KV-25X5R	KV-25X5U
Pal Comb	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RGB Priority	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
Woofer Box	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	ON	OFF	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	ON	OFF	ON
Norm D/K	OFF	ON	ON	ON	ON	OFF	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Teletext	ON	ON	ON	ON	ON	ON	ON	ON
Nicam Stereo	OFF	ON	OFF	ON	ON	ON	OFF	ON
Language Preset	Italian	French	German	Spanish	OIRT	English	OIRT	English

WARNING (KV-25X5L / KV-25X5U only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the ASTA mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE OUTLET SOCKET.

When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.

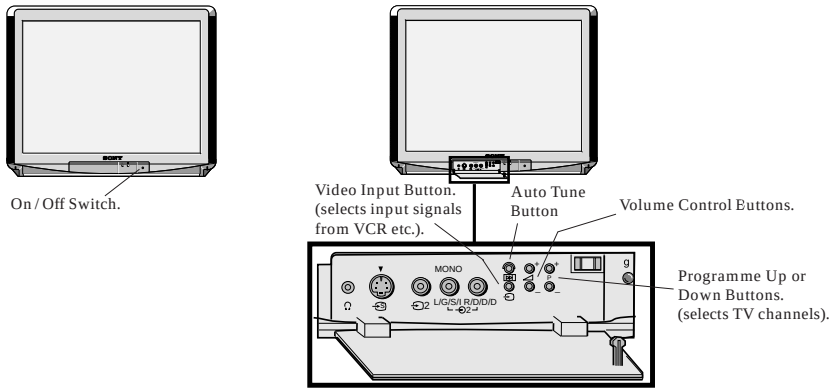


How to replace the fuse.
Open the fuse compartment with a screwdriver blade and replace the fuse.

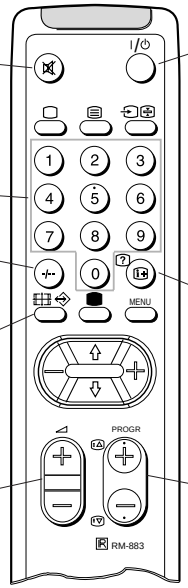
The operating instructions mentioned here are partial abstracts from the Operating Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Basic TV Features

Overview of TV Buttons


On / Off Switch.
Video Input Button. (selects input signals from VCR etc.).
Auto Tune Button
Volume Control Buttons.
Programme Up or Down Buttons. (selects TV channels).
MONO
L/G/S/I R/D/D/D

Overview of Remote Control Buttons



To Mute Sound

Press to mute TV sound. Press again to restore the sound.

To Select Channels

Press to select channels.

For double-digit programme numbers, e.g. 23, press -/-- first, then the buttons 2 and 3.

To Change Screen Format

Press to view programmes in 16:9 mode.
Press again to return to 4:3 mode.

To Adjust TV Volume

Press to adjust the volume of the TV.

To Temporarily Switch Off TV

Press to temporarily switch off TV. Press again to switch on TV from standby mode.
To save energy we recommend switching off completely when TV is not in use.
NOTE: After 15 -30 minutes without a TV signal and without any button being pressed, the TV switches automatically into standby mode.

To Reveal On Screen Information

Press to reveal all on-screen indications. Press again to cancel.

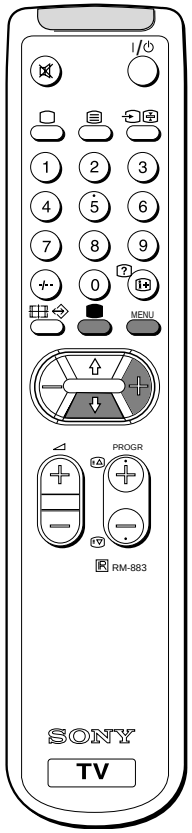
To Select Channels

Press to select channels.

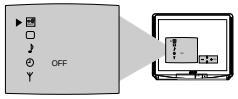
Additional TV Features

Using Select Mode

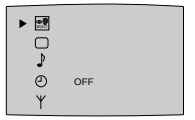
You can select different preset picture and sound modes.



1 Press the MENU button on the remote control to display the menu on the TV screen.

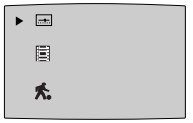


2 With the cursor pointing at the symbol on the TV screen as shown, press the yellow button.



3 Press the blue button to select the desired mode:

- reverts to settings made in "Adjusting the Picture and Sound" sections of the manual
- for films
- for programmes broadcast live



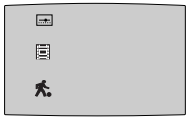
4 Press the MENU button to remove the menu display from the TV screen.

Note: The mode selected in step 3 is now stored.

Changing Modes Quickly

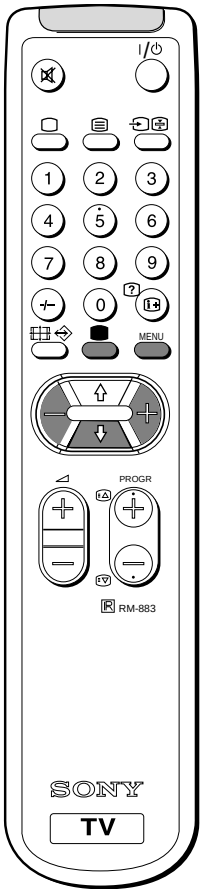
1 Press the ● button on the remote control to display the three different modes.

2 Press the ● button again to select your desired mode.



Adjusting the Picture

Although the picture is adjusted at the factory, you can modify it to suit your own requirement.



1 Press the ● button on the remote control to display the three different modes on the TV screen.

2 Press the ● button to highlight the user mode symbol ⊟ as shown.

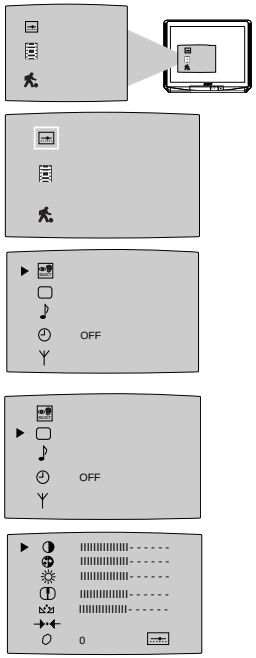
3 Press the MENU button to display the menu on the TV screen.

4 Press the blue button on the control to select the ▢ symbol on the TV screen then press the yellow button.

5 Press the blue button to select the item you wish to change (see below).

6 Press the red or yellow button to alter the selected item.

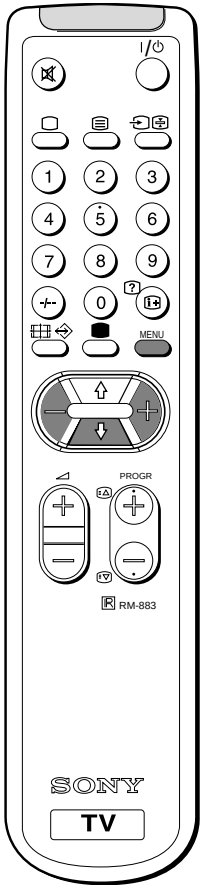
7 Press the MENU button to remove the menu display from the TV screen.



Symbol	Item
◑	• Contrast
◓	• Colour
☼	• Brightness
◐	• Sharpness
	• Hue control (only for NTSC video signals)
→•←	• Reset - resets to factory preset picture level
	• Picture rotation - adjusts picture tilt (only for KV-29X5U model)
⊟	• Represents the mode selected in the "Using Select Mode" section.

Adjusting the Sound

Although the sound is adjusted at the factory, you can modify it to suit your own requirement.



1 Press the ● button on the remote control to display the three different modes on the TV screen.

2 Press the ● button to highlight the user mode symbol ⊟ as shown.

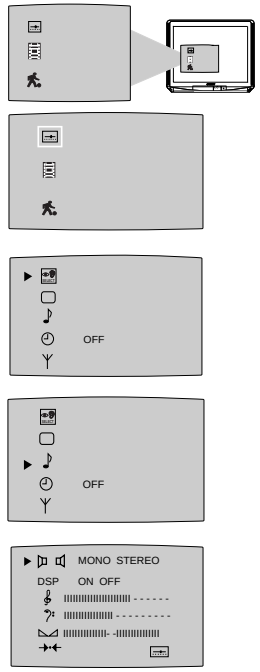
3 Press the MENU button to display the menu on the TV screen.

4 Press the blue button to select the ♪ symbol on the TV screen then press the yellow button.

5 Press the blue button to select the item you wish to change (see below).

6 Press the red or yellow button to alter the selected item.

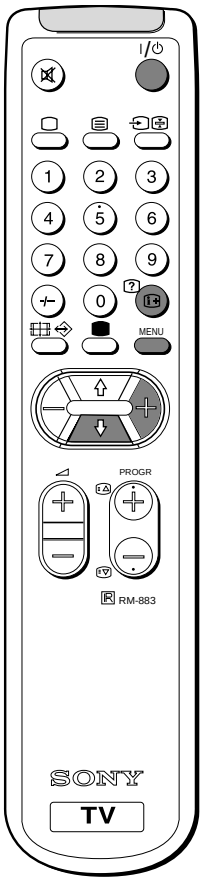
7 Press the MENU button to remove the menu display from the TV screen.



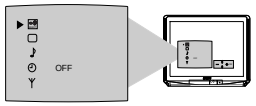
Symbol	Item
	• Mono sound / Stereo sound A: Channel 1 sound / B: Channel 2 sound (to select your desired language from a dual sound broadcast)
DSP	• On / Off (digital sound processor)
𝄞	• Treble
𝄢	• Bass
	• Balance
→•←	• Reset (resets to factory preset sound level)
⊟	• Represents the mode selected in the "Using Select Mode" section of the manual.

Using the Sleep Timer

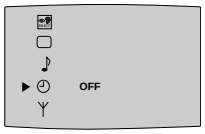
The TV may be set to switch automatically to the standby mode after a length of time chosen by you. You may set the time in 15 minute steps up to 4 hours.



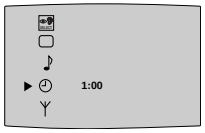
1 Press the MENU button on the remote control to display the menu on the TV screen.



2 Press the blue button on the control to select the ⏲ symbol on the TV screen, then press the yellow button.

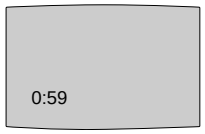


3 Press the yellow button repeatedly until the required amount of time delay appears on the screen.



4 Once the time delay has been selected, press the MENU button to remove the on-screen display.

One minute before standby, the display shown appears on the screen.

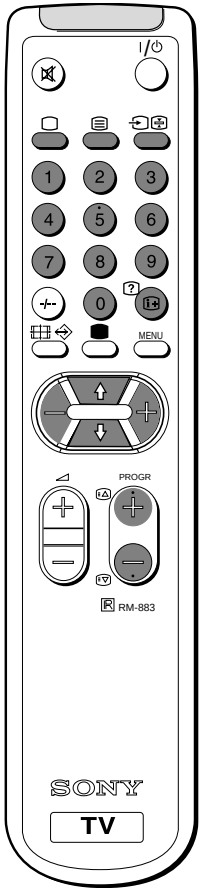


Notes:

- When watching TV, press the ⏲ button to display time remaining.
- To return to normal operation from standby mode, press the I/⏻ button.

Viewing Teletext

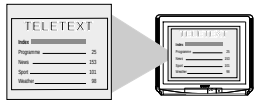
Teletext is an information service transmitted by most TV stations.



Selecting Teletext

1 Press a number button on the remote control to select the channel which carries the teletext service you wish to receive.

2 Press the ☰ button on the remote control to switch on teletext.



3 Input three digits for the page number using the numbered buttons on the control.

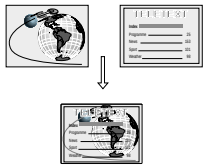
4 Press the ▢ button to switch off teletext.

Note: Teletext errors may occur if the broadcasting signals are weak.

Using Other Teletext Functions

To Superimpose Teletext on to the TV

Press ☰ once in teletext mode or twice in TV mode to superimpose teletext on to the TV screen.
Press ☰ again to cancel teletext mode.



To Move to Next or Preceding Page

Press PROGR + / - on the remote control to select the previous or next page.

To Freeze a Teletext Page

Press ⊕ on the control to freeze the page.
Press ⊕ again to cancel the freeze.

Revealing concealed information (eg: answers to a quiz).

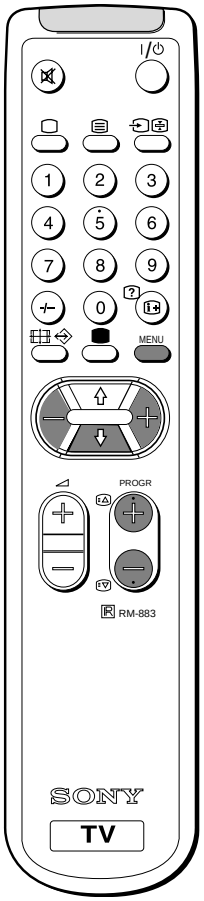
Press ? to reveal information.
Press again to conceal the information.

Using colour buttons to access pages (Fastext)

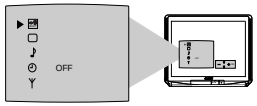
When the colour coded menu appears at the bottom of a page, press the colour button (green, red, yellow or blue) to access the corresponding page.

Exchanging Programme Positions

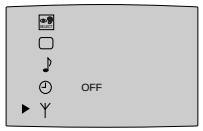
After tuning you may wish to change the order in which the channels appear on the TV. You may wish for example to exchange the channel on programme number 8 with the channel on programme number 4.



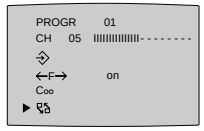
1 Press the MENU button on the remote control.



2 Press the blue button on the control to select ᛉ on the TV screen, then press the yellow button.

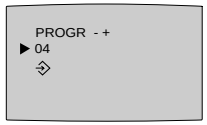


3 Press the blue button to select then press the yellow button.



4 With the cursor pointing at PROGR on the TV screen as shown, press PROGR + or - button until the channel you wish to rearrange appears on screen, then press the blue button once.

5 Press the red or yellow button to select the new programme number (e.g. PROGR 04) for your selected channel.



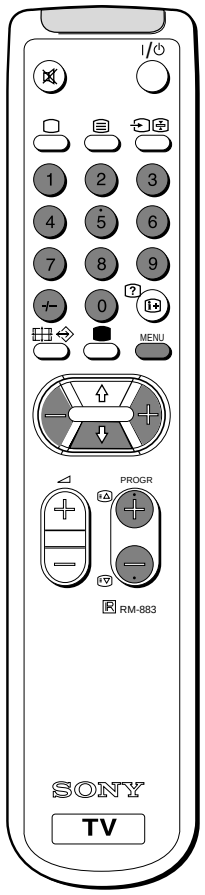
6 Press the blue button to select then press the yellow button to exchange the channels.

7 Repeat steps 4 to 6 if you wish to change the order of the other channels on your TV, then press MENU to return to normal TV screen.

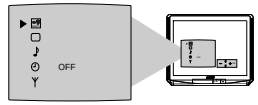
8 Press the PROGR+/- button to view your selected channels on their new programme numbers.

Manually Tuning the TV

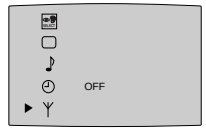
You have already tuned the TV to receive all available channels using the `Automatically Tuning the TV' procedure at the start of this manual. You can however carry out this operation manually using the following instructions.



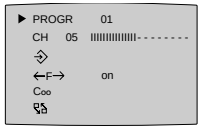
1 Press the MENU button on the remote control to display the menu on the TV screen.



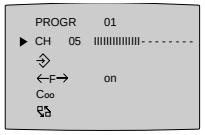
2 Press the blue button to select the ᛉ symbol on the TV screen then press the yellow button.



3 With the cursor pointing at PROGR on the TV screen as shown, press PROGR + or - button on the remote control to allocate a programme number to the channel (eg PROGR 01). For double digit numbers e.g. 55, press the -/-- button on the remote control then the corresponding numbered buttons.

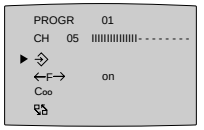


4 Press the blue button to select the tuning bar scale then press the yellow or red button once to start the channel search. (Yellow to search up the scale or red to search down). When a channel is found it appears on the TV screen.



5 If you do not wish to store this channel on the programme number you selected, press the yellow or red button to continue searching for the desired channel.

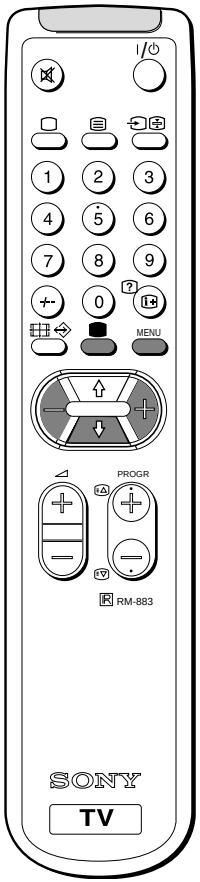
6 If this is the channel you wish to store, press the blue button to select the symbol on the screen then press the yellow button to store.



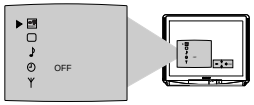
7 Repeat steps 3 to 6 if you wish to store more channels then press the MENU button to remove the menu from the TV screen.

Fine-Tuning Channels

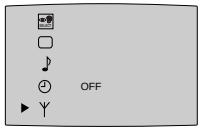
If a channel is slightly off tune, you can use this fine tune procedure to obtain a better picture reception.



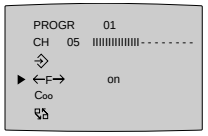
1 With the channel you wish to fine-tune on the screen, press the MENU button on the remote control. The menu display appears on the TV screen.



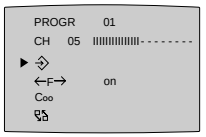
2 Press the blue button on the remote control to select the ⋎ symbol on the TV screen then press the yellow button.



3 Press the blue button to select the ←F→ symbol on the TV screen then press the red or yellow button to adjust the tuning.



4 Press the blue button to select the ⇥ symbol on the TV screen then press the yellow button to store.



5 Press the MENU button to remove the menu from the TV screen.

Using Optional Equipment

You can connect optional audio or video equipment to your TV, such as a VCR, a camcorder or video games as shown.

Select and View the Input Signal

1 Connect your equipment to the designated TV socket.

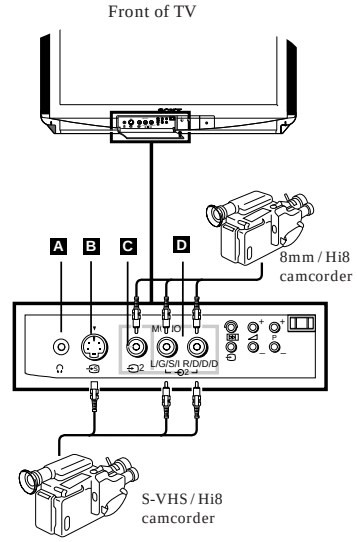
2 Press the ⇥ button repeatedly on your remote control until the correct input symbol appears on the TV screen.

Symbol	Input signals
⇥1	• Audio / video input signal through the Euro AV connector **F**
⇥	• RGB input signal through the Euro AV connector **F**
⇥2	• Audio / video input signal through the Euro AV connector **E** or the phono sockets **C** and **D**
⇥S	• S video input signal through the socket **B**.

3 Switch on the connected equipment.

4 To return to normal TV picture, press the ▭ button on the remote control.

Note: To avoid picture distortion, do not connect equipment to the **B** , **C** or **E** connectors at the same time.



Additional Information

Connecting a VCR

We recommend you tune in the VCR signal to TV programme number `0' using the `Manually Tuning in the TV' section of this instruction manual.

Connecting Headphones

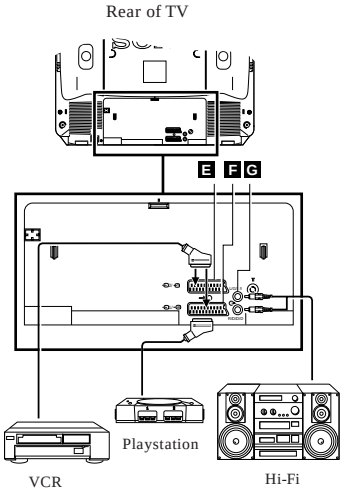
Plug in your headphones to the socket **A** on the front of the TV set.

Connecting Decoders

Plug in decoders to the socket **F** on the rear of the TV.

Connecting to External Audio Equipment

Plug in your Hi-Fi equipment to the **C** sockets on the rear of the TV if you wish to amplify the audio output from the TV.



Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	• Plug the TV in. • Press the ⏻ button on the front of TV. • If the ⏻ indicator is on press I/⏻ button or a programme number button on the remote control. • Check the aerial connection. • Check that the selected video source is on. • Turn the TV off for 3 or 4 seconds and then turn it on again using the ⏻ button on the front of the TV.
Poor or no picture (screen is dark), but good sound.	• Using the MENU system, select the Picture Adjustment display. Adjust the brightness, picture and colour balance levels. • From the Picture Adjustment display select →•← to return to the factory settings.
Poor picture quality when watching a RGB video source.	• Press the ⊖ button repeatedly on the remote control until the RGB symbol ⊖ is displayed on the screen.
Good picture, no sound	• Press the ◿ +/– button on the remote control. • If 🔇 is displayed on the screen, press the 🔇 button on the remote control.
No colour on colour programmes	• Using the MENU system, select the Picture Adjustment display. Adjust the colour balance. • From the Picture Adjustment display select →•← to return to the factory settings.
Distorted picture when changing programmes or selecting teletext	• Turn off any equipment connected to the 21 pin Euro connector on the rear of the TV.
Remote control does not function	• Replace the batteries.

- **If you continue to have these problems, have your TV serviced by qualified personnel.**
- **NEVER open the casing yourself.**

Specifications

TV system
I

Colour system
PAL
NTSC 3.58, 4.43 (only Video In)

Channel coverage
UHF: B21-B69

Picture tube
KV-25X5U:
Super Trinitron
Approx. 63 cm (25 inches) (Approx. 59 cm picture measured diagonally), 100° deflection
KV-29X5U:
Super Trinitron
Approx. 72 cm (29 inches) (Approx. 68 cm picture measured diagonally), 100° deflection

Inputs
- Rear Terminals
  - ⊖1 / ⊖ 21-pin Euro connector (CENELEC standard) including audio / video input, RGB input, TV audio / video output
  - ⊖2 / ⊖S 21-pin Euro connector (CENELEC standard) including audio / video input, S-video input, Monitor audio / video output
- Front Terminals
  - ⊖2 video input - phono jack
  - ⊖2 audio inputs - phono jacks
  - ⊖S S video input - 4 pin DIN

Outputs
- 🎧 Headphones jack - minijack stereo
- ⊖ Audio outputs (variable) - phono jacks

Sound output:
2 x 10 W (RMS)

Power consumption
KV-25X5U: 139 W
KV-29X5U: 158.5 W

Standby Power consumption
1 W

Dimensions (wxhxd)
KV-25X5U: Approx. 593 x 502 x 506 mm
KV-29X5U: Approx. 676 x 557 x 525 mm

Weight
KV-25X5U: Approx. 33.2 kg
KV-29X5U: Approx. 43.5 kg

Accessories supplied
RM-883 Remote Control (1)
IEC designated batteries (2)

Other features
TELETEXT, Fastext

Design and specifications are subject to change without notice.

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